

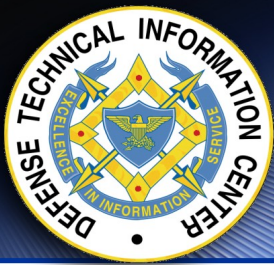
Defense Scientific & Technical Information **From Discovery to Access**

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Support the Warfighter: Collaborate with DoDTechipedia and DefenseSolutions

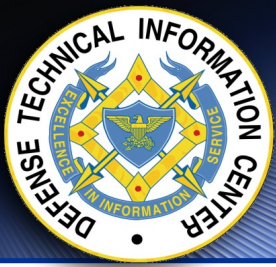
April 6, 2009

Mr. Christopher Thomas



Support the Warfighter. Collaborate with DoDTechipedia and Defense Solutions

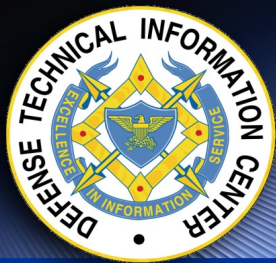
- Mr. Christopher Thomas
Director, Component Information Support
Defense Technical Information Center
- Mr. David Edwards
Staff Executive
Strategic Analysis, Inc.



Support the Warfighter: Collaborate with DoDTechipedia

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DoDTechipedia ***Technology Awareness***



Technology and the Modern World

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"We can't solve problems by using the same kind of thinking we used when we created them"

Albert Einstein

"There is no reason anyone would want a computer in their home."

Ken Olson, President, DEC, 1977

"Everything that can be invented has been invented"

Charles Duell, Commissioner US Patent Office, 1899

"I think there is a world market for maybe five computers."

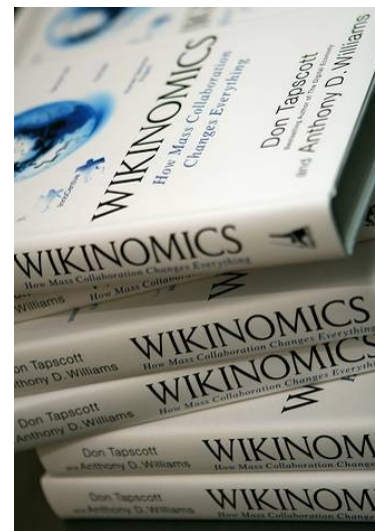
Thomas Watson, IBM Chairman, 1943

"If you don't know where you are going, you might end up

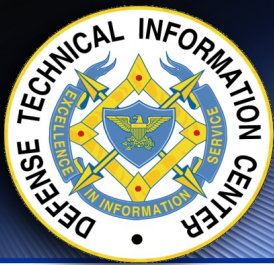
someplace else" ***Yogi Berra***

"These changes, among others, are ushering us toward a world where knowledge, power and productive capability will be more dispersed than at any time in our history - a world where value creation will be fast, fluid, and persistently disruptive."

Don Tapscott and Anthony Williams, Wikinomics



"When the rate of change outside your organization exceeds that within your organization, the end is near." - Jack Welch, former CEO, General Electric



Today's Mission Requires Rapid Incorporation of Technology

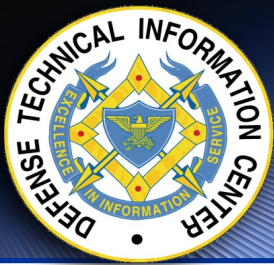
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“Our conventional modernization programs seek 99 percent solutions in years. Stability and counterinsurgency missions - the wars we are in - require 75 percent solutions in months.”

Secretary of Defense, Robert M. Gates
National Defense University Delivered, September 29, 2008

“...mandatory need to share budget and program information among all stakeholders, irrespective of Service or Agency ‘boundaries’ or the stage of POM deliberations. The real power is to ensure we share technical information and lessons on best practices in design, testing, manufacturing, and maintenance.”

Under Secretary of Defense for AT&L, John Young
AT&L Message Sept 5, 2008



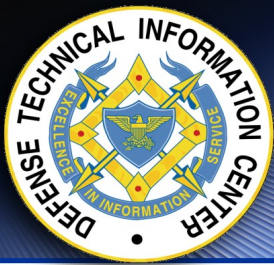
Procurement Cycles

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- “On average, DoD Acquisition Category One (ACAT I) development projects are approaching a 15 year procurement cycle”¹
- At the average, an ACAT I started in 1993 would be coming on line today. How do we effectively and cost effectively integrate the technologies that have emerged in those 15 years?



1) A Market Reaction to DoD Contract Delay, ADA446349

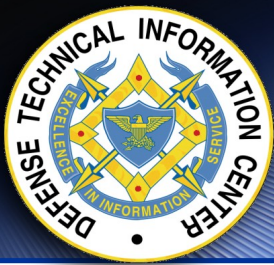


Awareness in a World of Constant Change

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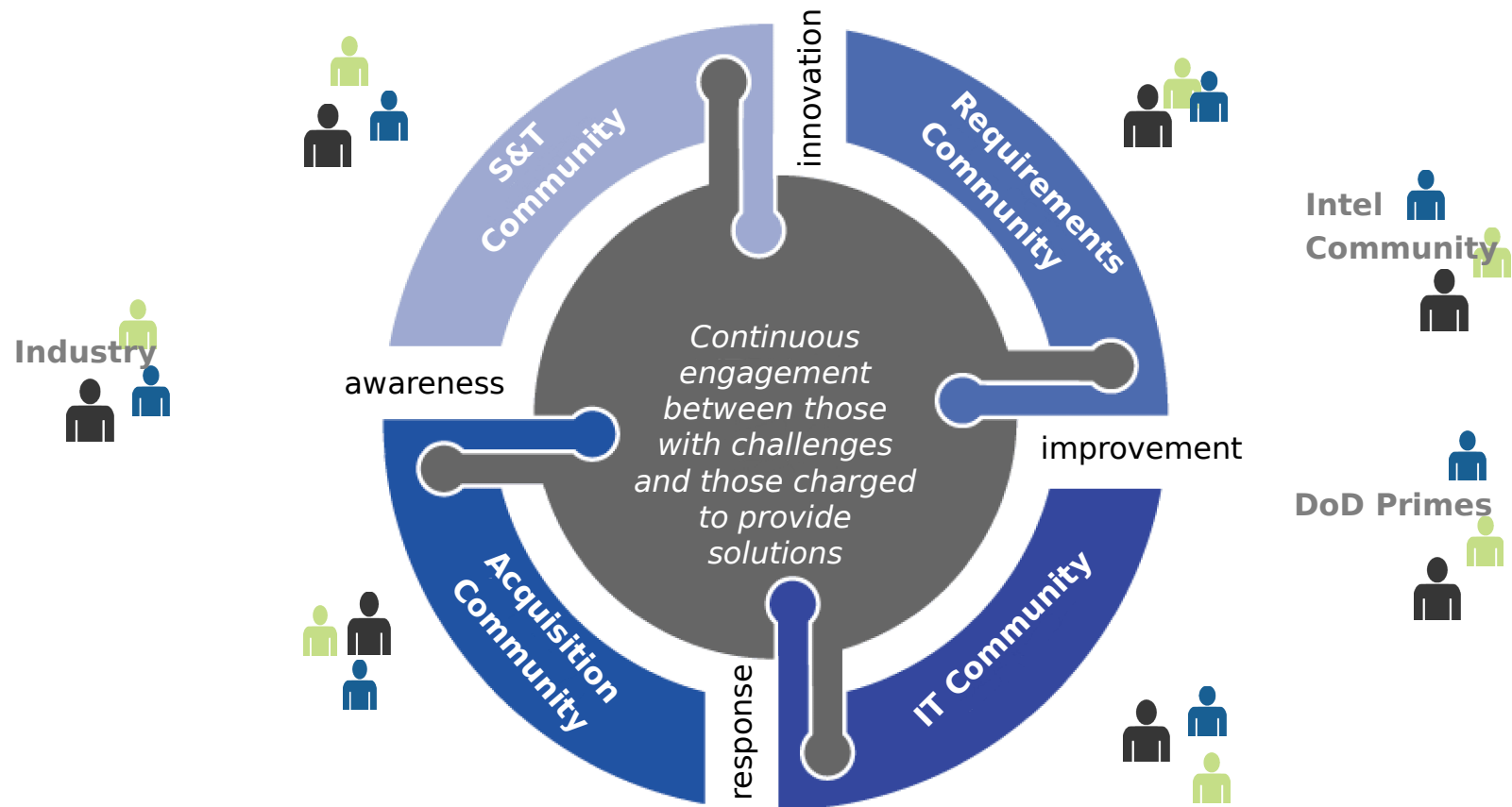
- DoD use of technology to meet current and emerging mission needs is estimated to consume 40% of the budget or about \$200B
- The FY09 Budget provides nearly \$14B in S&T funding and \$82B in R&D investments
- Predicting how an adversary might use a new technology to harm the US requires DoD familiarity and even exploitation of emerging technologies
- DoD lacks a widely accessible tool to foster collaboration between solution providers and technology consumers – the Acquisition Community must separately engage with dozens of organizations to stay abreast of DoD technology research and investments



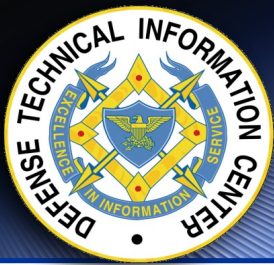


DoDTechipedia's Role Foster Collaboration

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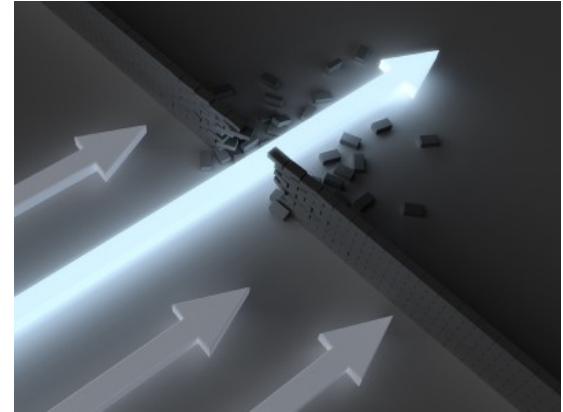


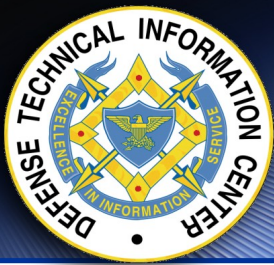
Foster communication between those with needs and those with solutions



Why a Wiki for DoD Technology Collaboration?

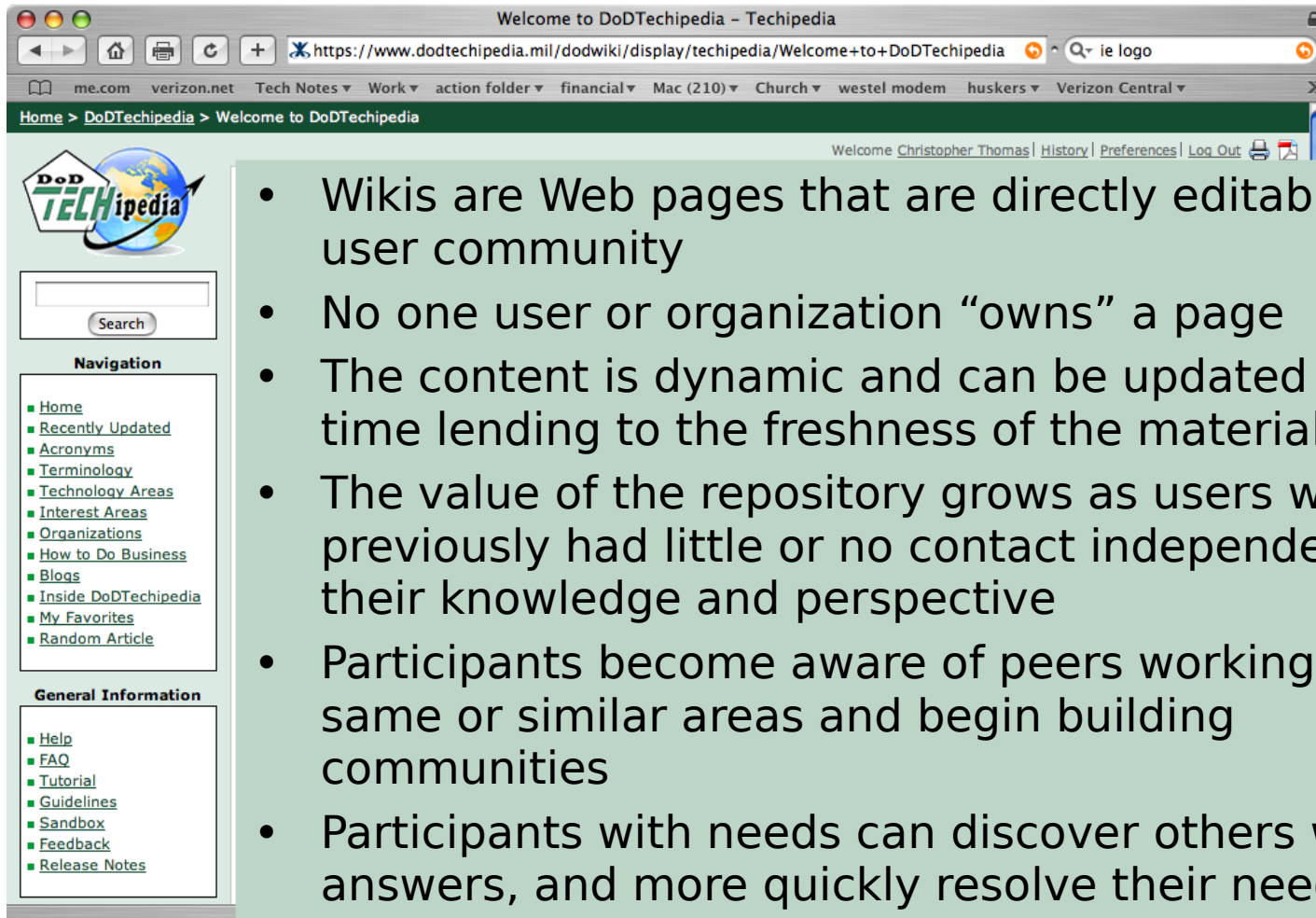
- Success of Wikipedia, Intellipedia make Wikis more familiar, especially to Generations X and Y
 - Builds on how people are interacting at home and at schools
 - Increasing awareness of wikis in the DoD S&T user community is through interaction with Intellipedia's S&T areas
- Low technical barriers to entry
 - Browsers based - no specialized tools
 - Low bandwidth



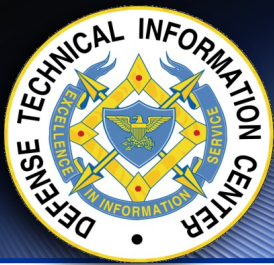


What is a Wiki?

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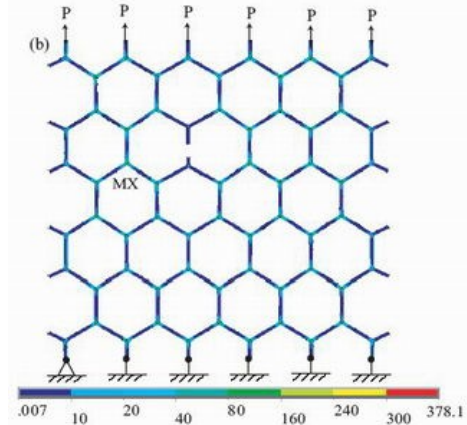
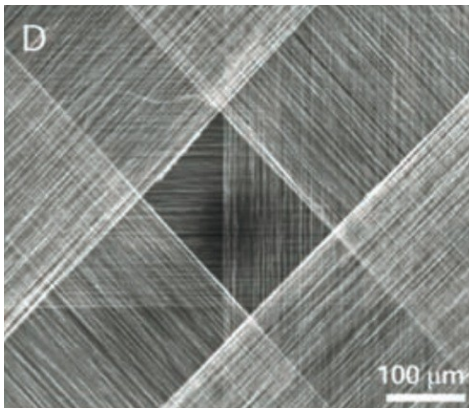
A screenshot of a web browser displaying the DoD Techpedia website. The browser window title is "Welcome to DoDTechpedia - Techipedia". The address bar shows the URL "https://www.dodtechpedia.mil/dodwiki/display/techipedia/Welcome+to+DoDTechpedia". The browser's search bar contains "ie logo". The website's navigation bar includes links for "me.com", "verizon.net", "Tech Notes", "Work", "action folder", "financial", "Mac (210)", "Church", "westel modem", "huskers", and "Verizon Central". The main content area features a "Welcome to DoDTechpedia" message and a search bar. The left sidebar contains a "Navigation" section with links to "Home", "Recently Updated", "Acronyms", "Terminology", "Technology Areas", "Interest Areas", "Organizations", "How to Do Business", "Blogs", "Inside DoDTechpedia", "My Favorites", and "Random Article". Below this is a "General Information" section with links to "Help", "FAQ", "Tutorial", "Guidelines", "Sandbox", "Feedback", and "Release Notes".

- Wikis are Web pages that are directly editable by the user community
- No one user or organization “owns” a page
- The content is dynamic and can be updated at any time lending to the freshness of the material
- The value of the repository grows as users who previously had little or no contact independently add their knowledge and perspective
- Participants become aware of peers working in the same or similar areas and begin building communities
- Participants with needs can discover others with answers, and more quickly resolve their needs

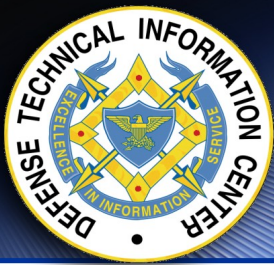


What is a Wiki?

- For example, a wiki area on Carbon Fiber nanotubes could be updated within minutes following an announcement on a manufacturing process that increases production rates



- The community of users builds the repository and self ensures the accuracy of the material. If a post on nanotube manufacturing improvement turns out to be invalidated by new information any other participant reviewing the page could immediately comment or correct the entry



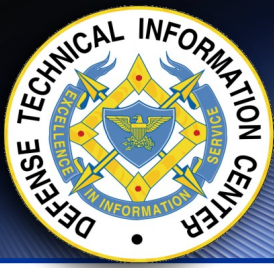
Who can Participate in DoDTechipedia?

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- DoDTechipedia opens collaboration to a broad community
 - DoD Employees & Contractors (via CAC registration or DTIC Registration)
 - Federal Government Employees and Contractors who are DTIC registered users (PIV access as DoD implements)



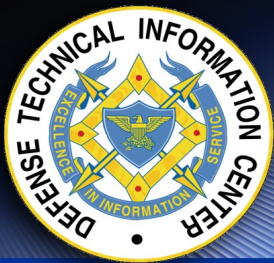
- Federal Government wide discussion
- No Acq Sensitive, no proprietary data



Initial Internal Wiki Content

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- Content - Attempted to seed “just enough” content (24 areas at launch/680+ technology areas today)
 - Stimulate interest without inhibiting discussion
 - Provide initial template to provide a guide for the type of information we are hoping the Wiki will cover
 - Support from DTIC researchers
- Growth depends on broad community participation
- DoDTechipedia team looking to aggressively market to expand awareness



DoDTechipedia

<https://www.dodtechipedia.mil>

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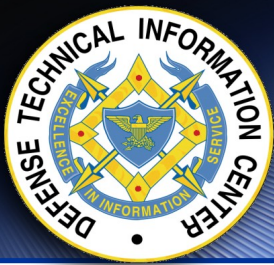
DOD TECHIPEDIA TUTORIAL: OVERVIEW OF A WIKI PAGE



DoDTechipedia is the Defense Department's science and technology wiki - a living, changing, collaboratively written encyclopedia on DoD technology.



MENU



Current Status

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- Live on October 1, 2008
- As of March 24, 2009:
 - 5,600+ Registered Users
 - 680+ Technology Area Pages
 - 147,000+ page views
 - 33 Blogs
 - Developing Classified Instance
 - Working Policy issues for Public Instance

Secretary of Defense

Under Secretary of Defense (AT&L)

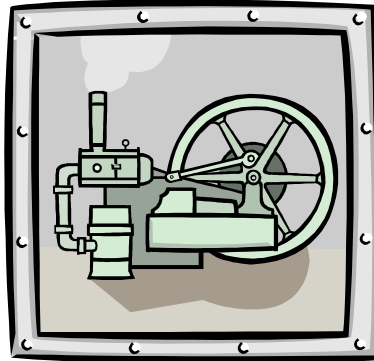
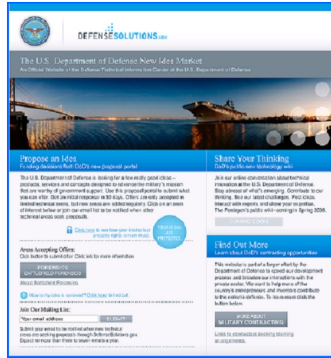
Director, Defense Research & Engineering

Director, Rapid Reaction Technology Office

Open Business Cell



Open Business Cell



DefenseSolutions.gov
Idea Management
Other Transactions
Prototypes

Open Business Cell





Battlefield Forensics

Simple Submission Form



Battlefield Forensics

- Multi-test kit

- Evidence gathering device

- Cell phone image origin

- Two new sub-topics



Simple Submission Form

Contract
information & title

Basis for
solution

Abstract

Maturation, test,
& assessment



Launched 6 Feb 09

FEDBIZOPPS announced 12 Feb 09

Targeted marketing underway
~221 hits per day

16 ideas submitted

Idea Management System

- Ingest, record, respond to ideas submitted
- Facilitates evaluation of idea
- Facilitates communication w/ submitter
- Updates status, tracks, reminds & stores

Other Transactions

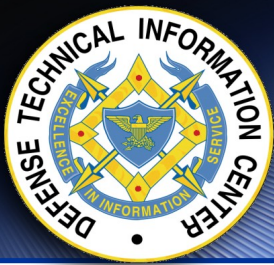
Authority lies outside the Federal Acquisition Regulations

- **Flexible Relationships** – Partnerships, consortia or teams instead of primes and subcontractors
- **Intellectual Property** - Minimal government rights may be appropriate
- **Payments** - Milestones or other methods versus cost-reimbursement
- Invokes **commercial-like practices**, reducing Government intrusion and red tape
- Promotes relationship of trust and spirit of cooperation with industry

Prototypes

- Something DoD could buy if it proves out
- “Weapon or weapon system” are broadly defined
- Follow-on development may be required
- Can be pre-production, >1, physical, or virtual





Points of Contact: DoDTechipedia

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703-767-9170

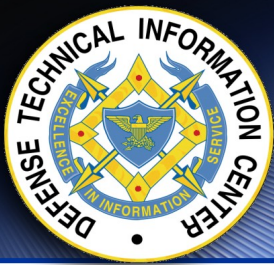
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